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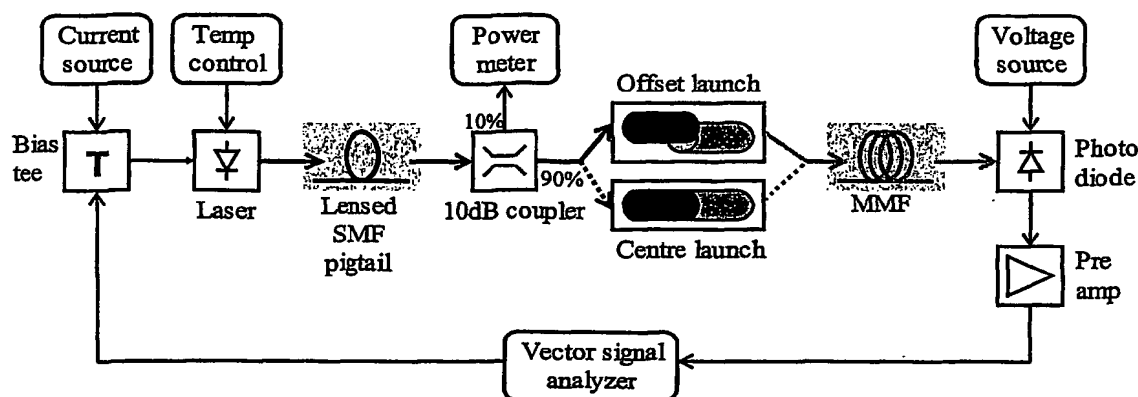
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[Continued on next page]

(54) Title: AN OPTICAL COMMUNICATION SYSTEM FOR WIRELESS RADIO SIGNALS



(57) Abstract: A method of transmission of radio signals over all types of graded-index multimode fibre is provided. The method comprises launching optical radiation into the core of the multimode fibre away from the centre of the core so as to strongly excite a subset of the available modes of the multimode fibre. The subset of modes excited are within a small number of mode groups and thus have similar propagation constants leading to a reduction in modal dispersion and modal interference and smoothing of the frequency response passband region beyond the fibres specified 3dB base band bandwidth assisting RF transmission and recovery from this region.

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